

IN THE CLAIMS

1. (Currently amended) A preparation in powder form for administration through mucosa, comprising a medicine of high molecular weight and aminoalkylmethacrylate copolymer ~~or polyvinyl acetal diethylaminoacetate~~.

2. (Original) The preparation of claim 1, further comprising a viscous polymer.

3-5. (Cancelled)

6. (Original) The preparation of claim 2, wherein the viscous polymer is hydroxypropylmethyl cellulose.

7. (Original) The preparation of claim 1, wherein the medicine of high molecular weight is selected from the group consisting of bioactive peptides and proteins, antibodies, vaccines, and antigens.

8. (Previously amended) The preparation of claim 7, wherein the protein is a granulocyte colony-stimulating factor.

9. (Previously amended) The preparation of any one of claims 1, 2, 6, 7, or 13-20, which is a preparation for pernasal administration.

10-12 (Cancelled)

13. (Currently amended) The preparation of claim 1, which comprises 0.1 to 90 w/w% of aminoalkylmethacrylate copolymer ~~or polyvinyl acetal diethylaminoacetate~~.

14. (Currently amended) The preparation of claim 1, which comprises 1 to 50 w/w% of aminoalkylmethacrylate ~~or polyvinyl acetal diethylaminoacetate~~.

15. (Previously added) The preparation of claim 1, which improves absorption of the medicine of high molecular weight through mucosa.

16. (Previously added) The preparation of claim 15, wherein the medicine of high molecular weight is selected from the group consisting of calcitonin, insulin, proinsulin, vasopressin, desmopressin, luteinizing hormone, luteinizing hormone-releasing hormone, somatostatin, prolactin, glucagon, gastrin, secretin, kallikrein, urokinase, neurotensin, enkephalin, kyotorphin, endorphin, endothelin, angiotensin, transferrin, atrial natriuretic polypeptide, epithelial growth factor, growth hormone, parathryoid hormone, interferons, interleukins, tumor necrosis factor, leukemia inhibitory factor, hematopoietic stem cell growth factor, erythropoietin, granulocyte colony-stimulating factor, granulocyte macrophage-stimulating factor, macrophage colony-stimulating factor, thrombopoietin, superoxide dismutase, tissue plasminogen activator, antithrombin, blood coagulation factors, anti-IgE antibodies, anti-IGA antibodies, anti-tumor antibodies, antibodies to tumor necrosis factor, anti-interleukin antibodies, HIV-neutralizing antibodies, anti-platelet antibodies, anti-hepatitis virus antibodies, hepatitis vaccines, influenza vaccines, pertussis vaccine, diptheria vaccine, tetanus toxoids vaccine.

17. (Previously added) The preparation of claim 1, wherein said high molecular weight medicine is a protein.

18. (Previously added) The preparation of claim 17, wherein said protein is conjugated to a hapten.

19. (Previously added) The preparation of claim 18, further comprising an adjuvant.

20. (Previously added) The preparation of claim 1, further comprising an adjuvant.
